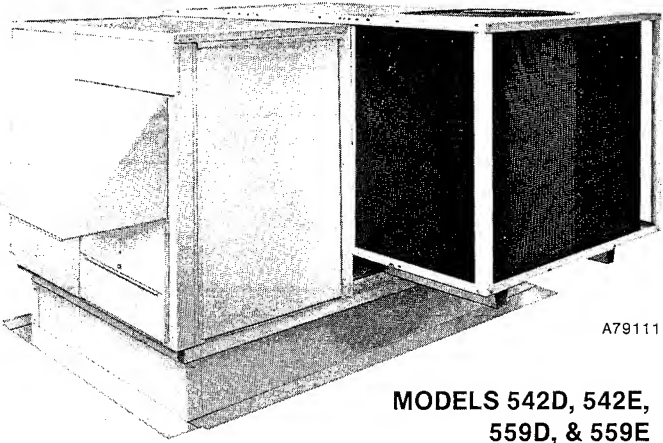


These rooftop system accessories are designed specifically for use with Models 542D and 542E Packaged Heat Pumps, Models 559D and 559E Packaged Air Conditioners, and Models 585H & J and 579J Packaged Gas/Electric Units. Models 542D, 559D, and 579J Downflow Units have a factory-installed plenum section which substantially reduces installation time and cost. Accessory plenums and filter racks are not required with these downflow units. *See the table on the last page of this publication for system accessory applications.*

Rooftop system accessories minimize overall installation costs and add a distinctive customized appearance to the installation. Unsightly ductwork, screws, and tape that detract from the rooftop installation are eliminated with the downflow unit, or the end discharge unit with an accessory plenum, installed on a roof-mounting curb.

This full line of accessories is available to meet the demands of most applications and includes: downflow plenums, roof-mounting curbs, flexible duct kits, concentric diffuser boxes, plenum economizers, horizontal economizers, and high-capacity filter racks.

A distinctive feature of the concentric duct arrangement design is the use of two parallel flexible ducts to connect the plenum to the aerodynamically designed concentric diffuser box. Special curb adapters are not required. This design eliminates the need for near-perfect alignment between the plenum section and curb on the roof and the ceiling-mounted diffuser grille.



ROOFTOP SYSTEM ACCESSORIES

SYSTEM ACCESSORY APPLICATIONS

| Accessory Description | 542E | | | 542D | 559E | | | | | 559D | 585H & J | | | 579J |
|------------------------------------|-----------------|------------|------------|------------|------------|------------|------------|------------|-----|------------|--------------------|--------------------|-----------------|------------|
| | 024, 030, & 036 | 042 & 048 | 060 | 060 | 024 & 030 | 036 | 042 | 048 | 060 | 060 | 018040 thru 036060 | 036100 thru 048125 | 060100 & 060150 | 060125 |
| Plenum | 304854-402 | 304854-404 | | — | 304854-401 | 304854-402 | 304854-403 | 304854-404 | | — | 304854-405 | 304854-409 | | — |
| Roof-Mounting Curb | 304851-301 | 304851-302 | | 304851-302 | 304851-301 | | | 304851-302 | | 304851-302 | 304851-303 | 304851-304 | | 304851-304 |
| Modulating Plenum Economizer†† | 304852-302 | 304852-304 | | 304852-304 | 304852-301 | 304852-302 | 304852-303 | 304852-304 | | 304852-304 | 304852-302 | 304852-304 | | 304852-304 |
| Two-Position Plenum Economizer | 304852-306 | 304852-308 | | 304852-308 | 304852-305 | 304852-306 | 304852-307 | 304852-308 | | 304852-308 | 304852-306 | 304852-308 | | 304852-308 |
| Barometric Damper Kit* | 301588-306 | 301588-305 | | 301588-305 | 301588-307 | 301588-306 | 301588-304 | 301588-305 | | 301588-305 | 301588-306 | 301588-305 | | 301588-305 |
| Modulating Horizontal Economizer†† | 304853-302 | 304853-303 | | — | 304853-301 | 304853-302 | | 304853-303 | | — | 304853-302 | 304853-303 | | — |
| Two-Position Horizontal Economizer | 304853-305 | 304853-306 | | — | 304853-304 | 304853-305 | | 304853-306 | | — | 304853-305 | 304853-306 | | — |
| Barometric Damper Kit† | 301588-308 | 301588-309 | | — | 301588-310 | 301588-308 | | 301588-309 | | — | 301588-308 | 301588-309 | | — |
| Concentric Diffuser Box | 301594-301 | 301594-302 | 301594-303 | 301594-303 | 301594-301 | | 301594-302 | 301594-303 | | 301594-303 | 301594-301 | 301594-302 | 301594-303 | 301594-303 |
| Flexible Duct Kit (48-inch)‡ | 301589-301 | 301589-303 | 301589-305 | 301589-305 | 301589-301 | | 301589-303 | 301589-305 | | 301589-305 | 301589-301 | 301589-303 | 301589-305 | 301589-305 |
| High-Capacity Filter Rack | 301591-306 | 301591-302 | 301591-307 | — | 301591-305 | 301591-306 | 301591-302 | 301591-307 | | — | 301591-301 | 301591-302** | 301591-307 | — |

*Kit includes both damper and relief-air hood. P/N's shown on this line are for applications with plenum economizers.

†Kit includes both damper and relief-air hood. P/N's shown on this line are for applications with horizontal economizers. The damper kits can only be used with the horizontal economizers when the optional bottom return is used.

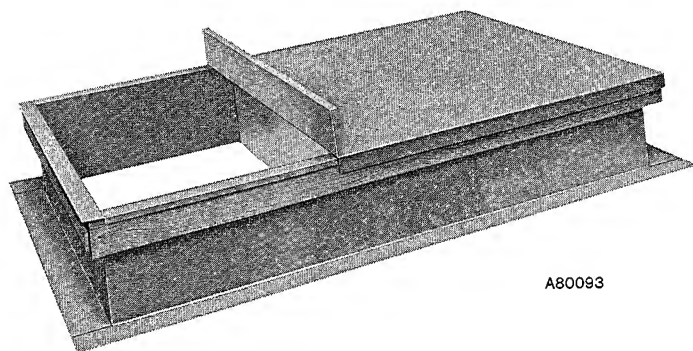
‡Flexible duct P/N's shown are for a carton of two.

**Use high-capacity filter rack P/N 301591-301 with size 036100.

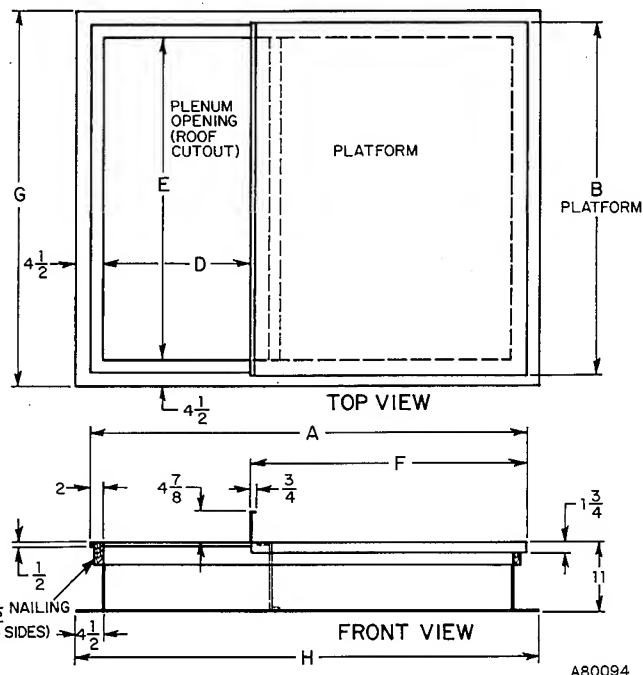
††A stepdown transformer & mounting box are available to avoid having a separate 230-V power supply for 460-V applications. See "Economizer Accessories Section."

ROOF-MOUNTING CURBS

The factory-assembled roof-mounting curbs are designed for use with the downflow units or the end discharge units when using the accessory plenum. Heavy-gauge, galvanized steel construction provides one-piece support. The curb complies with the standards of the National Roofing Contractors Association. A 2- x 4-inch nailing strip is provided for attaching the roofing to the curb.



A80093



A80094

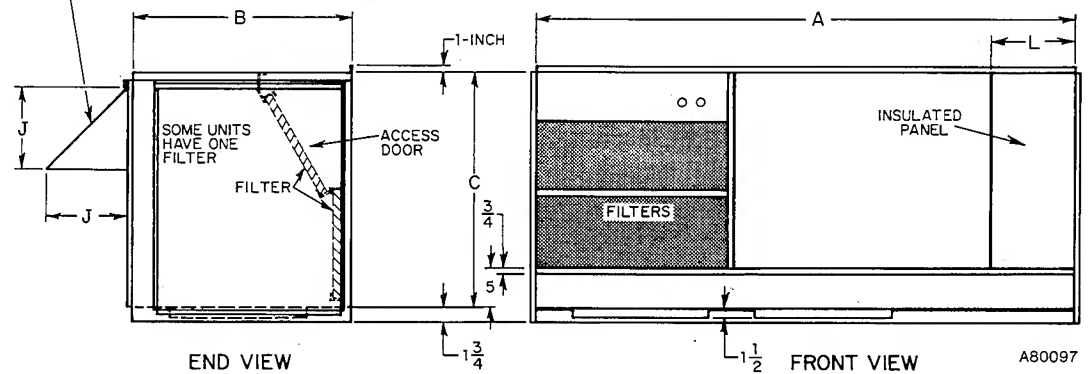
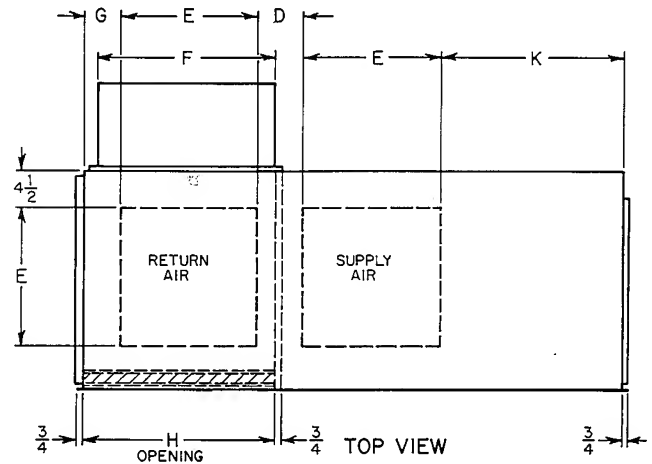
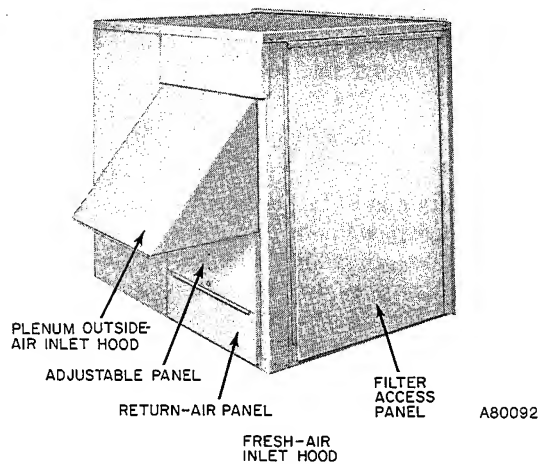
CURB P/N'S & DIMENSIONS (Inches)

| Curb P/N | A | B | D | E | F | G | H |
|------------|--------|--------|--------|--------|----|--------|--------|
| 304851-301 | 56-3/4 | 39-1/2 | 21-3/4 | 35-1/2 | 33 | 44-1/2 | 61-3/4 |
| 304851-302 | 68-3/4 | 44-1/2 | 23-3/4 | 40-1/2 | 43 | 49-1/2 | 73-3/4 |
| 304851-303 | 59-1/2 | 50-1/2 | 21-1/2 | 46-1/2 | 36 | 55-1/2 | 64-1/2 |
| 304851-304 | 70-1/2 | 62-1/2 | 23-1/2 | 58-1/2 | 45 | 67-1/2 | 75-1/2 |

PLENUMS FOR END-DISCHARGE UNITS

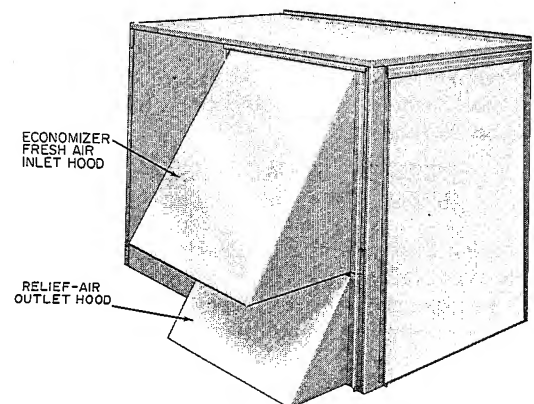
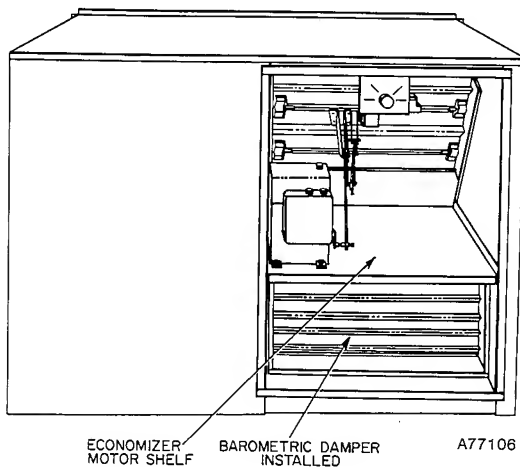
The basic plenum package includes the fully assembled rain-proof plenum with screened adjustable fresh-air inlet hood that provides up to 25% outside air, 1-inch disposable air filters, removable panels for filter access and easy installation of plenum mounted accessories such as the optional economizer.

These plenums are constructed from heavy-gauge, galvanized steel, finished with outdoor-quality, malibu beige enamel to match the rooftop unit, and fully insulated with UL-listed duct liner.



PLENUM P/N'S & DIMENSIONS (Inches)

| Plenum P/N | A | B | C | D | E | F | G | H | J | K | L | Filter Size |
|------------|--------|----|----------|-------|----|--------|-------|----|--------|--------|---|-----------------|
| 304854-401 | 40 | 25 | 21-7/16 | 2 | 15 | 20-1/2 | 4 | 20 | 13-1/4 | 4 | — | (1) 20 x 20 x 1 |
| 304854-402 | 40 | 25 | 27-7/16 | 2 | 15 | 17-1/2 | 4 | 20 | 11 | 4 | — | (1) 20 x 25 x 1 |
| 304854-403 | 45 | 27 | 27-7/16 | 3 | 17 | 20-1/2 | 4 | 23 | 13-1/4 | 4 | — | (1) 20 x 25 x 1 |
| 304854-404 | 45 | 27 | 33-7/16 | 3 | 17 | 20-1/2 | 4 | 23 | 13-1/4 | 4 | — | (2) 20 x 20 x 1 |
| 304854-405 | 51-1/2 | 25 | 29-11/16 | 4 | 15 | 17-1/2 | 4 | 21 | 11 | 13-1/2 | 5 | (1) 20 x 25 x 1 |
| 304854-409 | 63-1/2 | 27 | 29-11/16 | 2-1/2 | 17 | 20-1/2 | 3-1/2 | 21 | 13-1/4 | 23-1/2 | 9 | (2) 20 x 16 x 1 |



A76264

Plenum With Economizer & Plenum Rainhoods Installed

ECONOMIZERS—PLENUM & HORIZONTAL

The plenum-mounted modulating economizer and plenum-mounted, two-position economizer are designed for easy installation in the plenum section of the downflow units or in the accessory plenum used with the end discharge units. The modulating horizontal economizer and two-position horizontal economizer are designed for use with the end discharge units when the accessory plenum is not desired. These horizontal economizers can be attached directly over the unit return-air opening or they can be installed in the return-air duct in a remote location.

All of these economizers adjust their outdoor- and return-air dampers to economically blend cooler outside air with warmer return air for comfort cooling. This process reduces energy costs and extends equipment life by allowing the use of outdoor air to supply "free" cooling when conditions are favorable.

Constant ventilation is recommended for commercial application when the conditioned space is occupied.

The modulating-type economizers have a mixed-air controller that provides for full-range modulation of the outdoor- and return-air dampers. The enthalpy control selects the suitable outdoor-air quality for "free" cooling operation by measuring the outdoor-air dry bulb temperature and humidity mix. The motor requires a 208- or 230-V single-phase power supply. This motor does not have a spring return. A transformer is required for 460-V applications.

The two-position-type economizers open the outdoor-air dampers to a fully open position. These lower-cost economizers, which also operate in response to the enthalpy control, approximate the performance of the fully modulating economizers by continuously adjusting the dampers open or closed to match the requirements of the conditioned space. These two-position economizers also feature lower installation costs because the motor operates through the 24-volt control circuit of the unit and, therefore, does not require a separate power supply. This motor has a spring return that closes the outside-air dampers when the 24-volt control circuit is off for any reason.

All economizers are shipped complete with a damper motor and linkage, enthalpy control, compressor lockout switch, low-voltage wiring harness, high-voltage leads (modulating economizers) and a rainhood. Adequate wire lengths are provided; therefore, additional field-supplied wires are not required. The modulating economizers also have a mixed-air controller and an adjustable, motor-mounted, minimum-position potentiometer. Horizontal economizers are also furnished with 1-inch disposable air filters and gasket material. Horizontal economizers are not painted.

Plenum economizers will be factory-assembled in the accessory plenum when ordered concurrently with the plenum—at no extra charge. (Plenum economizers are not available as factory-installed in the downflow units—Models 542D, 559D, & 579J. They must be field-installed.)

ECONOMIZER ACCESSORIES BAROMETRIC RELIEF DAMPER

This accessory is an automatic pressure-relief device that prevents excessive buildup of indoor pressures, and is recommended if the economizer is specified. It is easily installed in the economizer casing at the return compartment. When the barometric relief damper is installed in a horizontal economizer, the alternate bottom return-air duct connection must be used.

The barometric relief damper will be factory-assembled in the economizer when ordered concurrently—no extra charge. (Not available as factory-installed with Models 542D, 559D, and 579J Downflow Units.

MODULATING ECONOMIZER ACCESSORIES

Remote Potentiometer—The remote manual potentiometer is used to remotely open the dampers for additional ventilation. (P/N P271-9782)

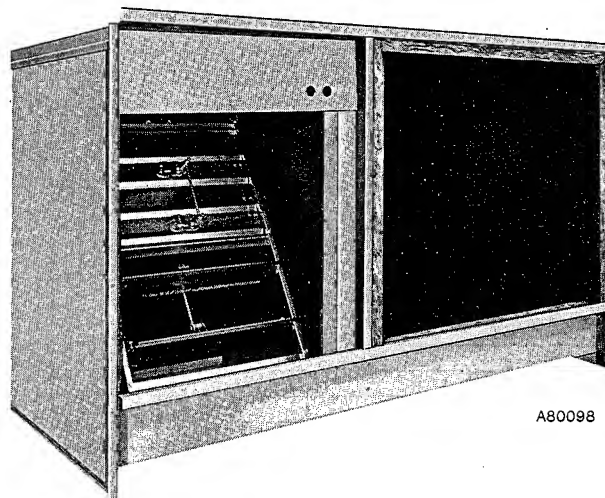
Night Thermostat—To reduce heating expenses, the night thermostat is used in buildings that are unoccupied at night. The night thermostat shuts the outdoor dampers of the economizer and prevents unneeded cold ventilation outdoor air from being added to the system. (P/N PS-3330)

Timeclock—The timeclock is used for automatic operation of the night thermostat. (P/N PS-3328)

Warmup Thermostat—The morning warmup thermostat is used in conjunction with the automatic night thermostat to provide added energy economy. The warmup thermostat assists in raising the conditioned space temperature to occupied conditions as soon as possible with a minimum use of energy. (P/N P331-9902)

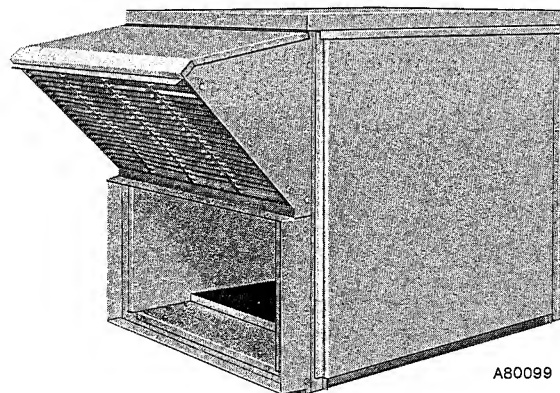
Minimum Outdoor-Air Relay—This control closes the outdoor-air dampers of the economizer to the minimum position when the system is in the heating mode. (P/N P283-1203)

Stepdown Transformer & Mounting Box—This transformer can be used to avoid having a separate 230-V power supply for the modulating economizer when installing economizer with a 460-V rooftop unit. (transformer: P/N P541-8501, mounting box: P/N 301590-301)



A80098

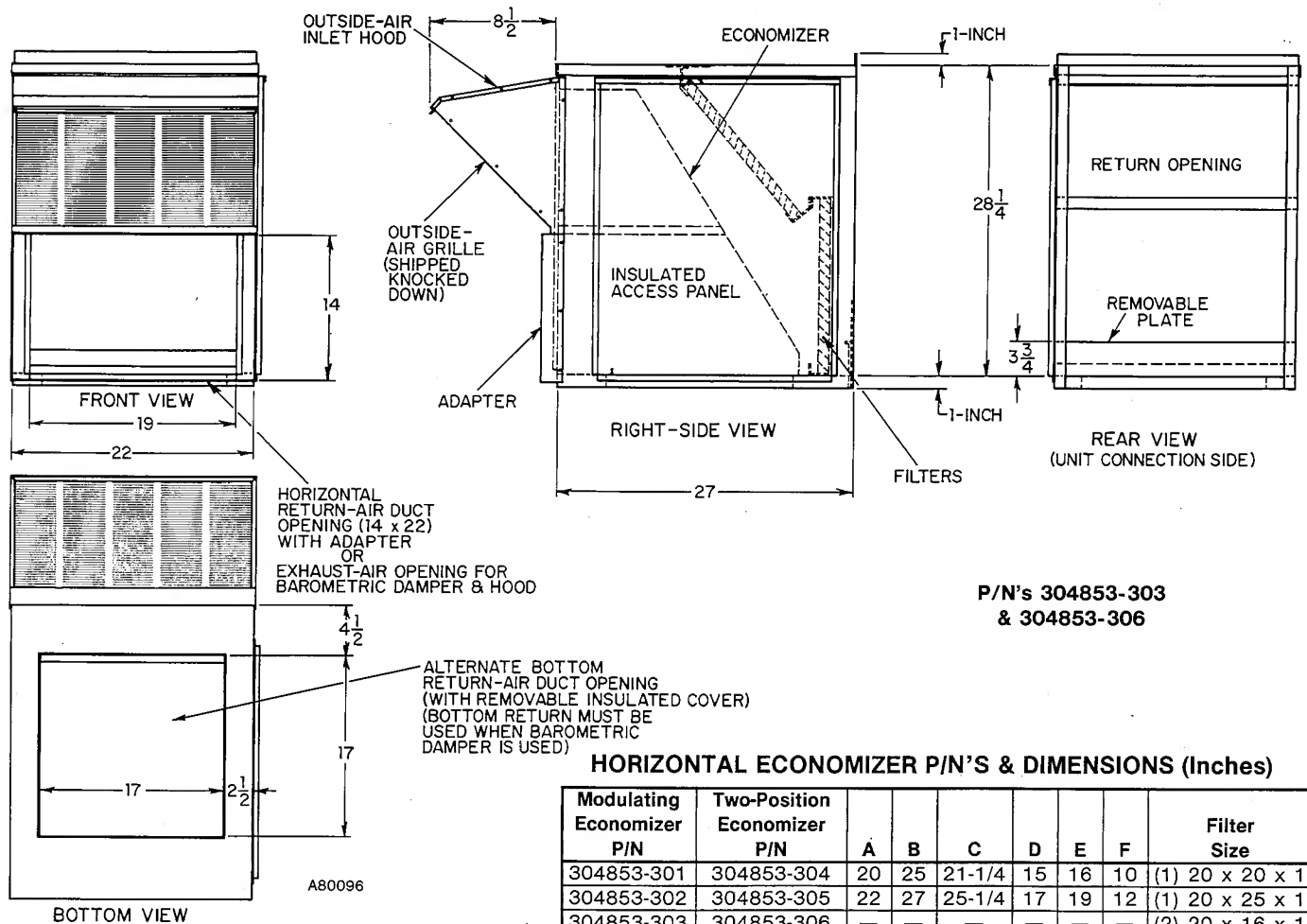
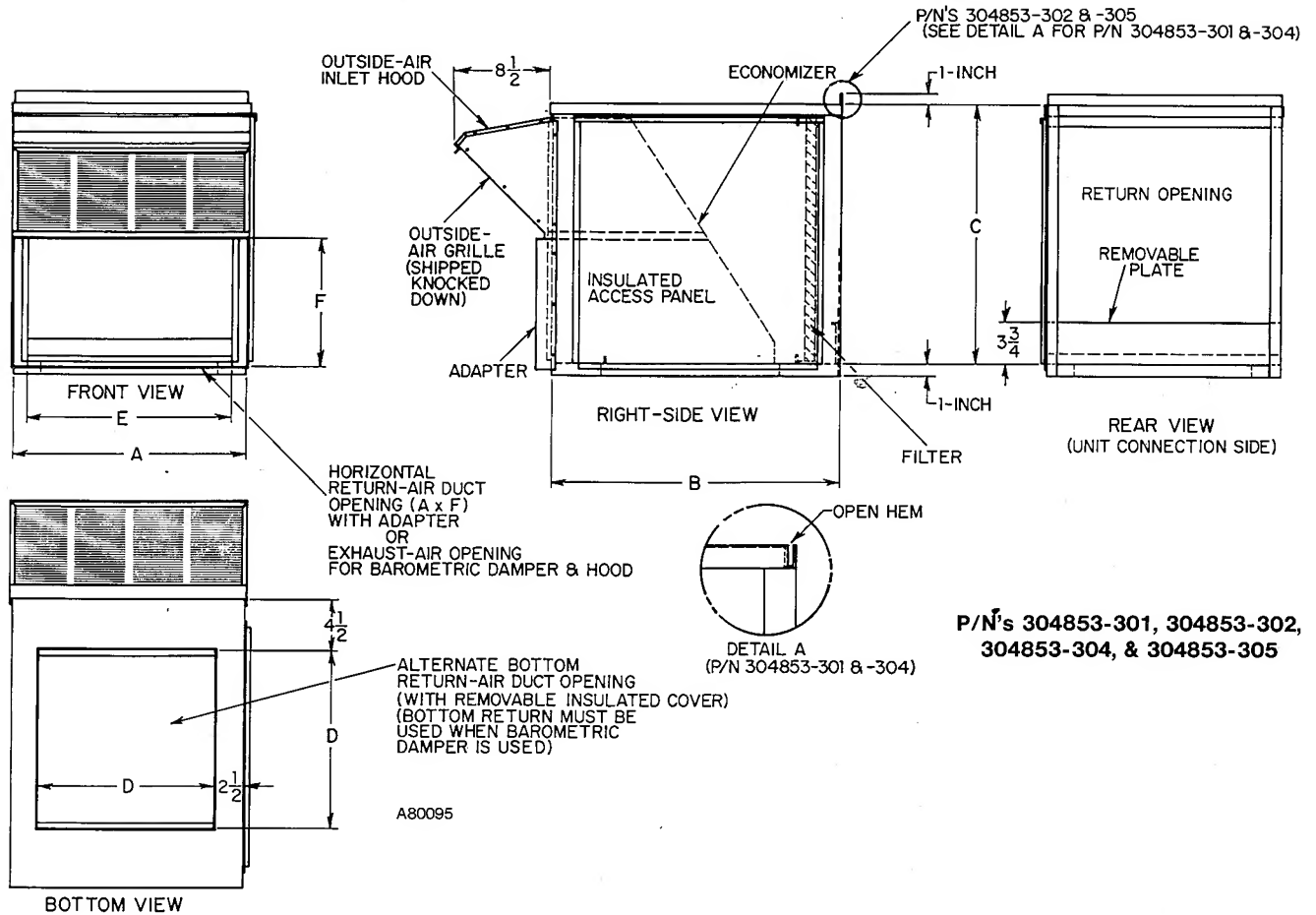
PLENUM-MOUNTED ECONOMIZER



A80099

HORIZONTAL ECONOMIZER

HORIZONTAL ECONOMIZER DIMENSIONS

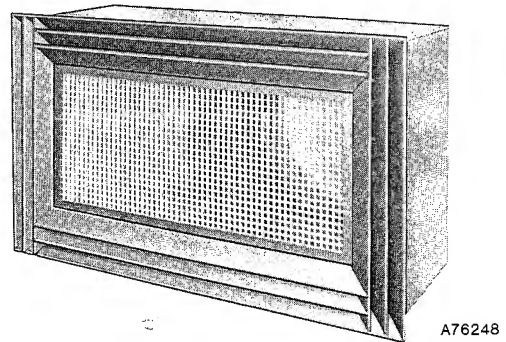
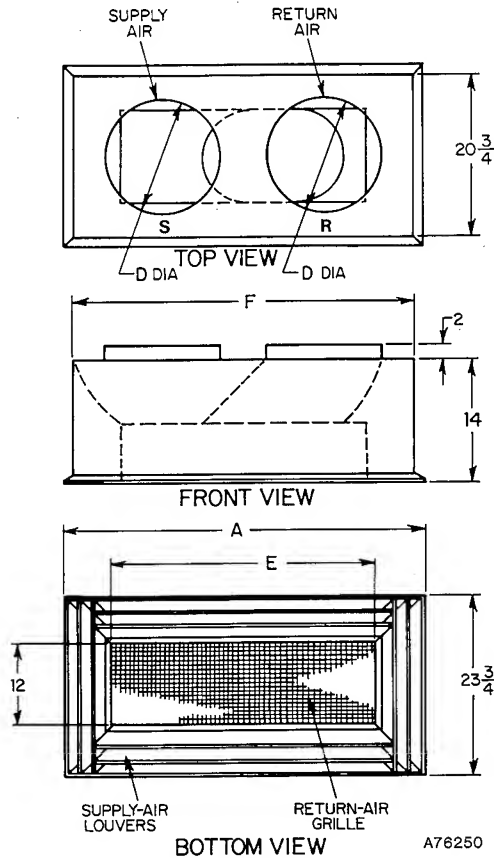


HORIZONTAL ECONOMIZER P/N'S & DIMENSIONS (Inches)

| Modulating Economizer P/N | Two-Position Economizer P/N | A | B | C | D | E | F | Filter Size |
|---------------------------|-----------------------------|----|----|--------|----|----|----|-----------------|
| 304853-301 | 304853-304 | 20 | 25 | 21-1/4 | 15 | 16 | 10 | (1) 20 x 20 x 1 |
| 304853-302 | 304853-305 | 22 | 27 | 25-1/4 | 17 | 19 | 12 | (1) 20 x 25 x 1 |
| 304853-303 | 304853-306 | — | — | — | — | — | — | (2) 20 x 16 x 1 |

CONCENTRIC DIFFUSER BOX

The aerodynamically designed concentric diffuser box assembly is equipped with a combination four-way supply, and center return diffuser. The box is designed for use with accessory flexible ducts and plenum sections or accessory plenums to provide an easily installed concentric system. A special core is provided within the diffuser box to provide even four-way air distribution.



CONCENTRIC DIFFUSER BOX P/N'S & DIMENSIONS (Inches)

| Diffuser Box P/N | A | D | E | F |
|------------------|--------|----|----|----|
| 301594-301 | 38-3/4 | 16 | 24 | 36 |
| 301594-302 | 47-3/4 | 16 | 30 | 45 |
| 301594-303 | 47-3/4 | 18 | 30 | 45 |

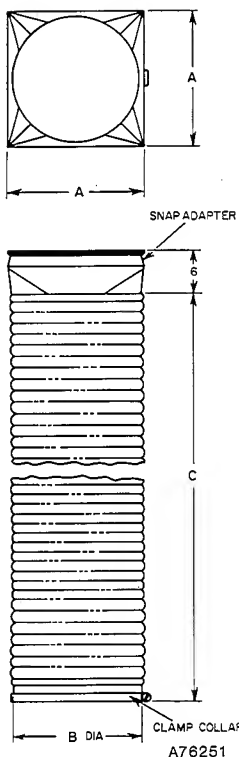
DIFFUSER THROW AT INDICATED AIRFLOW (Ft³/Min)

| Concentric Diffuser Box P/N | Ft ³ /Min | Min-Max Throw* (Feet) |
|-----------------------------|----------------------|-----------------------|
| 301594-301 | 600 | 6-13 |
| | 800 | 7-15 |
| | 1000 | 8-16 |
| | 1200 | 9-18 |
| 301594-302 & 301594-303 | 1200 | 7-14 |
| | 1400 | 8-17 |
| | 1600 | 9-20 |
| | 2000 | 12-27 |

*Throw is the distance air travels from the outlet at a given terminal velocity (Vt). Minimum throw is at a Vt of 75 ft/min and maximum throw is at a Vt of 35 ft/min. A special core is provided within the diffuser box to provide even four-way air distribution.

FLEXIBLE DUCTS

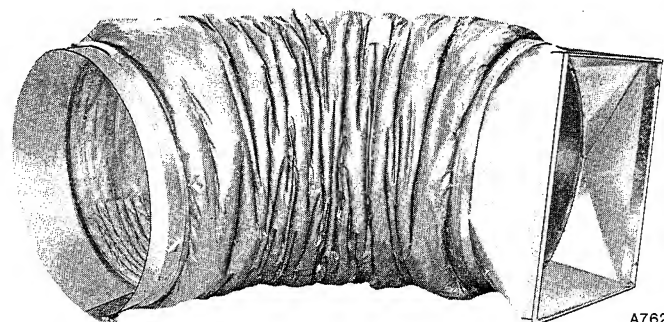
The flexible duct package consists of two flexible UL-listed ducts. The duct construction includes vapor barrier and 1-inch fiber glass insulation. The "K" factor is 0.23. Each duct has a square-to-round snap adapter for attachment to the accessory plenum on one end, and a round clamp collar for attachment to the concentric diffuser box on the other end.



FLEXIBLE DUCT P/N'S & DIMENSIONS (Inches)

| Flexible Duct P/N* | A | B | C |
|--------------------|----|----|----|
| 301589-301 | 15 | 16 | 42 |
| 301589-303 | 17 | 16 | 42 |
| 301589-305 | 17 | 18 | 42 |

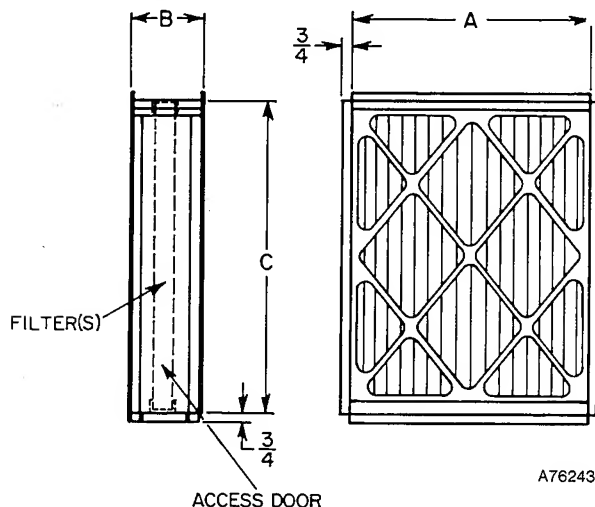
*Packaged two per carton.



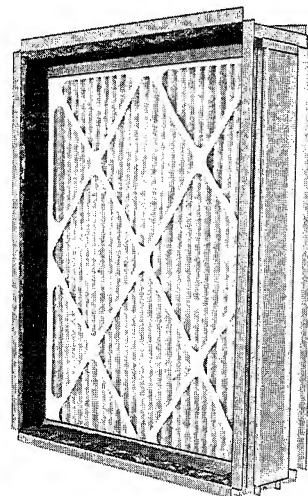
HIGH-CAPACITY FILTER RACKS

These high-capacity filter racks have been designed for use with Models 542E, 559E, and 585H & J End Discharge Units; and feature easy installation, serviceability, and high filtering performance. The housing is constructed from heavy-gauge steel

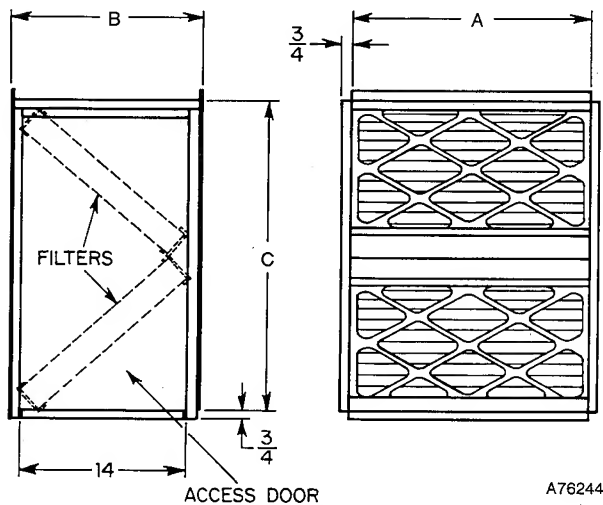
and is fully insulated. Both sides of the filter rack are flanged for easy installation. Two-inch, high-capacity, Farr 30/30 filters are provided.



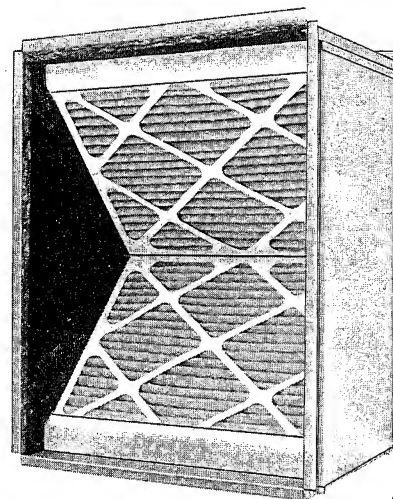
P/N's 301591-302, -305, -306, & -307



A76258



P/N 301591-301



A76259

HIGH-CAPACITY FILTER RACK P/N'S & DIMENSIONS (Inches)

| Filter Rack P/N | A | B | C | Filter Size |
|-----------------|----|--------|--------|-----------------|
| 301591-301 | 20 | 6 | 26-1/2 | (1) 20 x 25 x 2 |
| 301591-302 | 20 | 16 | 26-1/2 | (2) 16 x 20 x 2 |
| 301591-305 | 20 | 19 | 17-1/2 | (2) 16 x 20 x 2 |
| 301591-306 | 20 | 19 | 22 | (2) 16 x 20 x 2 |
| 301591-307 | 20 | 21-1/2 | 26-1/2 | (2) 20 x 20 x 2 |

BRYANT RECOMMENDED ROOM THERMOSTATS & SUBBASES

| Application | Thermostat P/N | Heat Anticipator Range | Subbase P/N | System Switch | Fan Switch |
|--------------------------------|----------------|------------------------|-------------|--------------------|------------|
| Single-Stage Heating & Cooling | P271-3496* | 0.15-1.2 | Included | HEAT—OFF—COOL | AUTO—ON |
| | P271-2661† | 0.18-1.0 | P271-1861 | | |
| | P271-2171* | 0.1-1.2 | P271-1871 | | |
| | P271-2771‡ | | | | |
| Manual Changeover | P272-2781‡ | 0.1-1.2 | P272-1883 | HEAT—AUTO—COOL—OFF | AUTO—ON |
| Autochangeover | P272-2781‡ | 0.1-1.2 | P272-1882 | | |

*Bryant logo.

†Uniparts® logo.

‡Honeywell logo.

ACCESSORY PRESSURE DROPS

The Product Data Sheets for the various packaged units contain airflow tables that show the resulting airflow at indicated external static pressures. The static pressure drop through the entire external supply- and return-air handling system must be calculated to determine the system airflow from the packaged unit airflow tables. The system accessory static pressure drop informa-

tion contained in this publication can be used to calculate either the external static pressure drop for a portion of a side-by-side duct system; or the total external static pressure drop of a concentric diffuser system when using the accessory flexible ducts, concentric diffuser box, and plenum.

SYSTEM ACCESSORY STATIC PRESSURE DROP (In. wc) AT INDICATED PACKAGED UNIT AIRFLOWS IN THE RANGE OF 500 TO 1600 FT³/MIN

| Accessory P/N | Airflow (Ft ³ /Min) | | | | | | | | | | | |
|---|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 500 | 600 | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 |
| PLENUM | | | | | | | | | | | | |
| 304854-401 | — | 0.19 | 0.23 | 0.27 | 0.32 | 0.38 | 0.45 | — | — | — | — | — |
| 304845-402 | — | 0.04 | 0.05 | 0.08 | 0.12 | 0.16 | 0.23 | 0.29 | 0.36 | — | — | — |
| 304854-405 | 0.03 | 0.04 | 0.06 | 0.09 | 0.13 | 0.18 | 0.25 | 0.32 | 0.40 | — | — | — |
| PLENUM ECONOMIZER* | | | | | | | | | | | | |
| 304852-301 or -305 | — | 0.03 | 0.03 | 0.04 | 0.04 | 0.05 | 0.05 | — | — | — | — | — |
| 304852-302 or -306 | 0.01 | 0.02 | 0.02 | 0.03 | 0.03 | 0.04 | 0.04 | 0.04 | 0.04 | — | — | — |
| HORIZONTAL ECONOMIZER* | | | | | | | | | | | | |
| 304853-301 or -304 | | | | | | | | | | | | |
| Horizontal Return | — | 0.14 | 0.14 | 0.15 | 0.16 | 0.18 | 0.21 | — | — | — | — | — |
| Bottom Return | — | 0.22 | 0.22 | 0.22 | 0.23 | 0.24 | 0.28 | — | — | — | — | — |
| 304853-302 or -305 | | | | | | | | | | | | |
| Horizontal Return | 0.07 | 0.08 | 0.08 | 0.09 | 0.10 | 0.12 | 0.14 | 0.16 | 0.19 | — | — | — |
| Bottom Return | 0.10 | 0.11 | 0.11 | 0.13 | 0.14 | 0.16 | 0.17 | 0.20 | 0.23 | — | — | — |
| FLEXIBLE DUCTS & CONCENTRIC DIFFUSER BOX | | | | | | | | | | | | |
| 301589-301 & 301594-301 | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.20 | 0.24 | 0.28 | — | — | — |
| HIGH-CAPACIT FILTER RACK | | | | | | | | | | | | |
| 301591-301 | 0.08 | 0.10 | 0.12 | 0.13 | 0.15 | 0.16 | 0.18 | 0.20 | 0.21 | 0.22 | 0.24 | 0.26 |
| 301591-305 | — | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | — | — | — | — |
| 301591-306 | — | 0.08 | 0.09 | 0.10 | 0.12 | 0.13 | 0.14 | 0.16 | — | — | — | — |

SYSTEM ACCESSORY STATIC PRESSURE DROP (In. wc) AT INDICATED PACKAGED UNIT AIRFLOWS IN THE RANGE OF 1000 TO 2100 FT³/MIN

| Accessory P/N | Airflow (Ft ³ /Min) | | | | | | | | | | | |
|---|--------------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 |
| PLENUM | | | | | | | | | | | | |
| 304854-403 | — | — | 0.13 | 0.15 | 0.18 | 0.21 | 0.24 | — | — | — | — | — |
| 304854-404 | 0.08 | 0.09 | 0.11 | 0.13 | 0.15 | 0.18 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.39 |
| 304854-409 | 0.19 | 0.21 | 0.22 | 0.24 | 0.26 | 0.29 | 0.31 | 0.35 | 0.40 | 0.46 | 0.54 | 0.64 |
| PLENUM ECONOMIZER* | | | | | | | | | | | | |
| 304852-303 or -307 | — | — | 0.02 | 0.03 | 0.04 | 0.04 | 0.05 | — | — | — | — | — |
| 304852-304 or -308 | 0.01 | 0.01 | 0.02 | 0.02 | 0.03 | 0.04 | 0.04 | 0.04 | 0.05 | 0.06 | 0.06 | 0.07 |
| HORIZONTAL ECONOMIZER* | | | | | | | | | | | | |
| 304853-302 or -305 | | | | | | | | | | | | |
| Horizontal Return | — | — | 0.16 | 0.19 | 0.23 | 0.30 | — | — | — | — | — | — |
| Bottom Return | — | — | 0.20 | 0.23 | 0.27 | 0.34 | — | — | — | — | — | — |
| 304853-303 or -306 | | | | | | | | | | | | |
| Horizontal Return | 0.08 | 0.09 | 0.11 | 0.13 | 0.15 | 0.18 | 0.20 | 0.23 | 0.26 | 0.30 | 0.34 | 0.39 |
| Bottom Return | 0.10 | 0.12 | 0.15 | 0.17 | 0.20 | 0.23 | 0.27 | 0.30 | 0.34 | 0.39 | 0.45 | 0.52 |
| FLEXIBLE DUCTS & CONCENTRIC DIFFUSER BOX | | | | | | | | | | | | |
| 301589-303 & 301594-302 | 0.06 | 0.07 | 0.09 | 0.11 | 0.12 | 0.14 | 0.16 | 0.18 | 0.20 | 0.22 | 0.24 | 0.27 |
| 301589-305 & 301594-303 | — | — | — | — | — | — | — | 0.14 | 0.16 | 0.18 | 0.20 | 0.22 |
| HIGH-CAPACITY FILTER RACK | | | | | | | | | | | | |
| 301591-302 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.21 | 0.23 | 0.24 | 0.26 | 0.27 | — |
| 301591-306 | 0.13 | 0.14 | 0.16 | 0.17 | 0.18 | 0.19 | 0.21 | 0.22 | 0.23 | 0.24 | 0.26 | 0.27 |
| 301591-307 | 0.10 | 0.11 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 |

*Pressure drop data for economizers is based on a neutral air pressure in the conditioned space as can be achieved with the accessory barometric damper kit.

—A dash indicates portions of the table that are beyond the airflow ranges of the packaged units with which the accessory is used.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE
WITH INSTALLATION INSTRUCTIONS